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Counsel for Defendant Google LLC

**UNITED STATES DISTRICT COURT
NORTHERN DISTRICT OF CALIFORNIA, OAKLAND DIVISION**

CHASOM BROWN, WILLIAM BYATT,
JEREMY DAVIS, CHRISTOPHER
CASTILLO, and MONIQUE TRUJILLO,
individually and on behalf of all similarly
situated,

Plaintiffs,

v.

GOOGLE LLC,

Defendant.

Case No. 4:20-cv-03664-YGR-SVK

**DECLARATION OF JOSEF ANSORGE IN
SUPPORT OF GOOGLE'S OPPOSITION
TO PLAINTIFF'S REQUEST FOR AN
ORDER TO SHOW CAUSE**

Referral: Hon. Susan van Keulen, USMJ

1 I, Josef Ansorge, declare as follows:

2 1. I am of counsel at Quinn Emanuel Urquhart & Sullivan LLP, which serves as
3 Google's outside counsel in this litigation. I submit this declaration in support of Google's
4 Opposition to Plaintiffs' Request for the Court to Issue an Order To Show Cause for Why Google
5 Should Not Be Sanctioned for Discovery Misconduct. I make this declaration of my own personal,
6 firsthand knowledge, and if called as a witness, I could and would testify competently thereto.

7 **Discovery Dispute P16**

8 2. On May 26, 2021, the parties informed the Court of a discovery dispute, designated
9 P16, related to Plaintiffs' RFP 120: "Documents sufficient to identify, during the Class Period,
10 Chrome web browser communications that did not contain any X-Client Data Header." Dkt. 177.

11 3. On June 8, 2021, the Court ordered the parties to submit supplemental briefing on
12 the following specific question: "What is Plaintiffs' factual basis to dispute Google's position that
13 there are multiple reasons why the X-Client Data field may be empty and therefore the empty field
14 does not necessarily identify class members?" Dkt. 191-1.

15 4. On July 9, 2021, the parties submitted a joint letter brief in which Plaintiffs responded
16 to the Court's specific factual question ("What is Plaintiffs' factual basis to dispute Google's
17 position that there are multiple reasons why the X-Client Data field may be empty and therefore the
18 empty field does not necessarily identify class members?") and Google responded to Plaintiffs'
19 position. *See* Dkt. 218.

20 5. On July 13, 2021, the Court appointed Douglas Brush as Special Master. Dkt. 220.
21 On the same day, the Court referred discovery dispute P16 to the Special Master. Dkt. 221.

22 6. On July 28, 2021, the parties provided the Special Master with materials including
23 briefing on P16 and sources cited in that briefing.

24 7. On September 10, 2021, the Special Master requested updates from the parties on
25 various discovery disputes, including P16.

26 8. On September 14, 2021, the parties provided the Special Master with separate
27 updates on various discovery disputes, including P16.

28

1 9. On October 6, 2021, the parties informed the Special Master that they were at an
2 impasse regarding P16 and requested his guidance. *See* Dkt. 299 ¶ 35.

3 10. On October 20, 2021, the Special Master issued a report in which he resolved P16
4 by denying Plaintiffs' request for documents sufficient to identify "Chrome web browser
5 communications that did not contain any X-Client Data Header" as overbroad. Dkt. 299-1 at 2. The
6 report included findings that the Special Master process has "led to significant progress in resolution
7 of the discovery disputes referred to the Special Master." Dkt. 299 ¶ 49.

8 11. On October 27, 2021, Plaintiffs submitted objections to the Special Master's October
9 20, 2021 report, including objections to the Special Master's ruling on P16. Dkt. 311 at 5.

10 12. On November 12, 2021, the Court issued an order finding that "the discovery
11 disputes at hand [including P16] have been briefed and argued extensively before this Court, before
12 the Special Master, and most recently again before this Court at the hearing on November 4, 2021."
13 Dkt. 331 at 2. The Court conducted a *de novo* review of the Special Master's factual conclusions
14 regarding P16 and adopted his findings. *Id.* at 3.

15 **Summary of Google's Participation in the Special Master Process**

16 13. Over the past eight months of Special Master discovery, Google:

- 17 • Participated in 23 virtual conferences with Plaintiffs before the Special
18 Master, including four meetings where seven Google engineers answered
19 deposition-style questions and performed live iterative searches;
- 20 • Disclosed [REDACTED] potentially relevant data sources, provided relevant information
21 including field names and descriptions, and ran searches across seven sources
22 using Plaintiffs' identifiers;
- 23 • Ran searches for more than [REDACTED] search terms/cookie values across [REDACTED]
24 different data sources; produced tens of thousands of pages of decrypted
25 cookies, scripts, and data associated with GAIA IDs, IDE cookie values, NID
26 cookie values, Analytics CID values, and UMA IDs, provided by consenting
27 Plaintiffs and Plaintiffs' experts, including from logs that contain information
28 confidential to third party publishers which required reasonable notice to such

1 publishers for Plaintiffs' first set of searches pursuant to the November 12
2 order;

- 3 • Ran additional searches for more than [REDACTED] identifiers across [REDACTED] data sources;
4 provided tens of thousands of pages of decrypted cookies, scripts, and data
5 associated with GAIA IDs, PPIDs, IDE cookie values, NID cookie values,
6 Analytics CID values, UMA IDs, UID values, and combination of IP address
7 and User Agent values, for Plaintiffs' second set of searches pursuant to the
8 November 12 order;
- 9 • Produced all preserved data from logs that do not contain confidential third
10 party information, totaling more than [REDACTED] GB; and
- 11 • Sent multiple letters to the Special Master and Plaintiffs providing further
12 information, explaining concepts and processes, and responding to various
13 factual questions.

14 14. Throughout the Special Master process, Special Master Brush has consistently
15 recognized Google's good faith efforts, for example:

16 a. "I mean we have to assume there's a good-faith effort that Google has made
17 some attempts on this in a seemingly significant matter to use the tools identified to search the data
18 in a responsive and productive way. I do agree that ... greater transparency is always helpful, as
19 long as it's not being used as something to play some 'gotcha' games." Special Master Hearing Tr.
20 27:6-12, Feb. 16, 2022, a true and correct copy of excerpts is attached hereto as **Exhibit 1**;

21 b. "And, again, these are complicated issues. It's complicated technology. I
22 think we're all doing our best." *Id.*, 62:11-13;

23 c. "Again, let's not always frame everything as if there was some malice or
24 trying to hide things. I mean, this is a complicated issue." Special Master Hearing. Tr. 37:14-17,
25 Feb. 25, 2022, a true and correct copy of excerpts is attached hereto as **Exhibit 2**; and

26 d. "What's before me, yes, you have, both sides have worked together." Hr. Tr.
27 9:6-7, Special Master Hearing Tr. Mar. 5, 2022, a true and correct copy of excerpts is attached hereto
28 as **Exhibit 3**.

Details of Google's Participation in the Special Master Process and Google's Use of Logs Front Door to List Top [REDACTED] Fields For Requested Log Sources

15. Following Mr. Brush's appointment on July 13, 2021 as Special Master (Dkt. 220), on July 30, 2021 and September 15, 2021, Google participated in Zoom conferences with Plaintiffs before the Special Master.

16. On September 16, 2021, the Court issued an Order setting forth a three-step process for the Special Master discovery whereby (1) potentially relevant sources are identified, (2) additional information is provided for a subset of those sources, and (3) a further subset of those sources is then searched. Dkt. 273.

17. Pursuant to the Order and the Special Master's instructions, Google:

- Identified [REDACTED] potentially relevant data sources, including the name of the data source, a description of each data source's purpose and function, and information about the default and current retention status;
- Provided additional information about [REDACTED] sources, including schema/fields, field descriptions, and documents relevant to searching and working with the requested sources;
- Searched and produced existing data from [REDACTED] data sources selected by Plaintiffs; and
- Provided a diagram regarding relevant data, data-flow, and identifiers.

18. Google also participated in Zoom conferences with Plaintiffs before the Special Master on September 22, 2021, October 5, 2021, and October 12, 2021.

19. On October 20, 2021, the Special Master issued a report finding that "Google has engaged in and is, at the time of this Special Master's Report and Recommendation, in the process of producing relevant, responsive materials for the respective Plaintiffs under the supervision and as a direct result of the Special Master's intervention in resolving disputes referred to the Special Master." Dkt. 299 ¶ 50.

20. On November 4, 2021, the parties had a live in-person hearing before this Court regarding the Special Master's report and recommendation.

1 21. On November 12, 2021, the Court issued an Order laying out steps to conclude the
2 Special Master process. *See* Dkt. 331 at 5 (“The requests for production from Google must and will
3 come to an end as provided for in Exhibit 1.”); *see also id.* at 8 (“Google shall provide a declaration,
4 under penalty of perjury from Google, not counsel, that 1. To the best of its knowledge, Google has
5 provided a complete list of data sources that contain information relevant to Plaintiffs’ claims . . .”).

6 22. On November 15, 2021, Google participated in a Zoom conference with Plaintiffs
7 before the Special Master.

8 23. On November 18, 2021, Google submitted a declaration from Andre Golueke, a
9 Discovery Manager at Google, stating that “To the best of my knowledge and informed
10 understanding, Google has provided a complete list of sources that contain information about
11 Plaintiffs relevant to Plaintiffs’ claims.” Dkt. 338 ¶ 3.

12 24. Plaintiffs did not challenge Mr. Golueke’s declaration or the exhibits attached
13 thereto, and the Special Master team found that with the Golueke declaration Google met the
14 requirements of the November 12 order. Attached hereto as **Exhibit 4** is a true and correct copy of
15 Mr. Schmidt’s November 22, 2021 email to Counsel for Google.

16 25. On November 18, 2021, Google also submitted to the Special Master lists of field
17 and field descriptions for [REDACTED] data sources, and lists of all data sources searched prior to and
18 throughout the Special Master process, dates of the searches, all corresponding Bates numbers,
19 identifiers for the searches, names of the tools used, and full search scripts.

20 26. On November 23, 2021, Google submitted additional information in response to the
21 November 12, 2021 Order.

22 27. On November 24, 2021, Google participated in a Zoom conference with Plaintiffs
23 before the Special Master. During the meeting, Google explained the technical challenges and
24 burden associated with providing all fields for all potentially relevant [REDACTED] logs, and requested
25 to limit its production to the largest [REDACTED] fields. Google’s request was not for the purpose of including
26 or excluding certain fields from its production. Rather, the limitation was driven by the capabilities
27 of [REDACTED]—a tool Google maintains in the ordinary course of business capable of
28 automatically generating a list of the top [REDACTED] fields by size for a [REDACTED] log without the delay and

1 burden associated with expending substantial new engineering resources on a custom solution which
2 may or may not have been achievable. The Special Master revised the order to require Google to
3 provide names for the largest [REDACTED] fields for individual [REDACTED] logs.

4 28. On December 1, 2021, Google produced the ordered field names for the largest [REDACTED]
5 fields for [REDACTED] logs as described in Section 3, Numbers 8 and 9 of the November 12, 2021 Order,
6 pulled by the Schema View on Google's readily available tool [REDACTED]. Attached hereto as
7 **Exhibit 5** is a true and correct copy of Google's December 1, 2021 letter to the Special Master
8 ("Along with this letter, we are providing field names for the largest [REDACTED] fields for all the additional
9 [REDACTED] logs as described in Section 3, Numbers 8-9 of the Order ...").

10 29. On December 6, 2022, Google provided additional field information regarding [REDACTED]
11 previously searched data sources and [REDACTED].

12 30. On December 8, 2022, Google provided additional field information regarding [REDACTED]
13 data sources. Google noted that, "As communicated earlier, including at the November 24
14 conference, the December 1 submission contains the top [REDACTED] fields by size for the [REDACTED] logs
15 pulled through Google's automated tool [REDACTED]." Attached hereto as **Exhibit 6** is a true
16 and correct copy of Google's December 8, 2021 letter to the Special Master.

17 31. On December 9, 2022, the Special Master acknowledged that "the undertaking of
18 efforts to pull this information in such a short period of time has been tremendous," and thanked
19 Google for its "hard work and continued cooperation in moving forward with the process." Attached
20 hereto as **Exhibit 7** is a true and correct copy of Mr. Schmidt's December 9, 2021 email to Counsel
21 for Google.

22 32. On the same day, Counsel for Plaintiffs wrote to the Special Master, raising certain
23 issues regarding Google's compliance with the November 12, 2021 Order. In response, on
24 December 10, 2021, the Special Master team stated that, "we are pleased that Google has now
25 provided Plaintiffs with field names for the potentially relevant data sources where possible ... at
26 this time, the Special Master is not going to require Defendant to provide more field descriptions
27 than have already been provided for Section 3 processes[.]" The Special Master team also
28 acknowledged that "the Special Master temporarily modified the field listing requirement to include

1 the lesser of [REDACTED] fields or all of the fields in each data source.” Attached hereto as **Exhibit 8** is a
2 true and correct copy of Mr. Schmidt’s December 10, 2021 email to the parties.

3 33. On December 15, 2021, Google participated in a Zoom conference with Plaintiffs
4 before the Special Master. During the conference, Plaintiffs requested that Google add
5 [REDACTED] as a relevant source and provide additional field information on the basis that
6 this is one of the sources “Google used as part of its mid-2020 [REDACTED].” During
7 the same conference, Google agreed to add [REDACTED] as a source in the Special Master
8 process. Attached hereto as **Exhibit 9** is a true and correct copy of Plaintiffs’ December 15, 2021
9 email to the Special Master and Counsel for Google.

10 34. On the same day, Google provided the requested information. Attached hereto as
11 **Exhibit 10** is a true and correct copy of Google’s December 15, 2021 letter to the Special Master
12 (“In response to Plaintiffs’ request made today for additional information related to
13 [REDACTED], Google has used its [REDACTED] tool to compile the top [REDACTED] fields by
14 size for [REDACTED].”) (emphasis in original).

15 35. On December 15, 2021, Google received Plaintiffs’ first round search requests,
16 asking that Google search more than [REDACTED] identifiers across [REDACTED] data sources. On December 17, 2021,
17 Plaintiffs confirmed that the cookie values all came from the browsers of consenting Plaintiffs and
18 Ms. Antoinette Simmons, who was not a named Plaintiff and is not a named Plaintiff at the time of
19 writing.

20 36. One of the sources Plaintiffs selected is a log not included in Dkt. 338-1. The source,
21 called [REDACTED], is a personal log (or P-log) to which data is
22 written when a user is signed in to a Google Account. Data in p-logs is outside of the case scope
23 because Plaintiffs’ class definition is expressly limited to signed out users. Dkt. 136-1 (SAC), ¶ 192;
24 Dkt. 395-2 (TAC), ¶ 192. In any event, Google searched [REDACTED]
25 [REDACTED] and, following guidance from the Special Master, produced responsive
26 data to Plaintiffs.

27 37. On December 21, 2021, the Special Master approved Plaintiffs’ request to include
28 [REDACTED] as a potentially relevant data source for which Brown Plaintiffs may request

1 searches be performed[.]” Attached hereto as **Exhibit 11** is a true and correct copy of Mr. Schmidt’s
2 December 21, 2021 email to the parties.

3 38. On the same day, Google made a production of data pursuant to the Special Master
4 process.

5 39. On December 24, 2021, Google made a production of data pursuant to the Special
6 Master process.

7 40. On December 26, 2021, Google received Plaintiffs’ search requests for
8 [REDACTED].

9 41. On December 29, 2021, Google made a production of data pursuant to the Special
10 Master process.

11 42. On December 30, 2021, Google submitted a letter to the Special Master in response
12 to various factual questions posed by Plaintiffs, and made another production of data pursuant to the
13 Special Master process, including search results for [REDACTED].

14 43. Between December 31, 2021 and January 20, 2022, Google made [REDACTED] additional
15 productions of data pursuant to the Special Master process.

16 44. On January 19, 2022, Google participated in a Zoom conference with Plaintiffs
17 before the Special Master.

18 45. On January 31, 2022, Google produced additional data pursuant to the Special Master
19 process and submitted a letter to the Special Master and Counsel for Plaintiffs in response to various
20 factual questions posed by Plaintiffs.

21 46. On February 2, 2022, Google participated in a Zoom conference with Plaintiffs
22 before the Special Master.

23 47. On February 14, 2022, Google agreed to Plaintiffs request to add Bert Leung as their
24 forty-third custodian; in excess of the Court-ordered cap.

25 48. On February 16, 2022, Google participated in a Zoom conference with Plaintiffs
26 before the Special Master.

27 49. On February 22, 2022, Google received Plaintiffs’ second round search requests,
28 requesting Google to search more than [REDACTED] identifiers across [REDACTED] data sources.

1 50. On February 23, 2022, Google produced additional data pursuant to the Special
2 Master process.

3 51. On February 25, 2022, Google participated in a Zoom conference with Plaintiffs
4 before the Special Master.

5 52. On February 26, 2022, Google produced additional data pursuant to the Special
6 Master process.

7 53. On February 28, 2022, four Google engineers participated in a Zoom conference with
8 Plaintiffs' counsel and experts before the Special Master, and Google engineers answered Plaintiffs'
9 experts' questions about log data and tools.

10 54. On March 1, 2022, four Google engineers participated in a Zoom conference with
11 Plaintiffs' counsel and experts before the Special Master, and Google engineers answered Plaintiffs'
12 experts' questions about log data and tools.

13 55. On the same day, Google sent a letter to the Special Master and Plaintiffs identifying
14 the [REDACTED] logs from which the [REDACTED] pulls data.

15 56. On March 2, 2022, four Google engineers participated in a Zoom conference with
16 Plaintiffs' counsel and experts before the Special Master, and Google engineers answered Plaintiffs'
17 experts' questions about log data and tools.

18 57. In providing Plaintiffs information about fields they were seeking, Google agreed to
19 do so using Google's Dremel tool, at Plaintiffs' insistence. Using this tool resulted in the inclusion
20 of an overinclusive set of fields from the underlying GWS proto.

21 58. On the same day, Google produced additional data pursuant to the Special Master
22 process and provided a status update email per the Special Master's request.

23 59. On March 3, 2022, Google participated in a Zoom conference with Plaintiffs before
24 the Special Master. On the same day, Google also sent two letters providing additional information
25 pursuant to the Special Master process, including the comments written by engineers in the
26 underlying log proto for the
27 [REDACTED] field:

28 "Indicates whether a request may come from Chrome Incognito. Note that the accuracy of this field

1 is not guaranteed, and this field can only be used for monitoring and analysis purposes. For more
2 information, please refer to go/detect-incognito and go/3p-blocking-browsers.”

3 60. On March 4, 2022, two Google engineers participated in a Zoom conference with
4 Plaintiffs’ counsel and experts before the Special Master, and performed live iterative searches. On
5 the same day, Google also produced additional data pursuant to the Special Master process,
6 including the top [REDACTED] fields by size for the [REDACTED] logs from which the [REDACTED]
7 [REDACTED] pulls data.

8 61. On Saturday, March 5, 2022, Google responded to Plaintiffs’ letter regarding the
9 Special Master process, in which Google provided the proto comment for the
10 [REDACTED] field, agreed to follow Plaintiffs’ counsel’s suggestion to
11 produce populated fields for the [REDACTED] logs from which the [REDACTED]
12 [REDACTED] pulls data, and reiterated the technical burdens associated with providing all field names
13 for all identified logs. Attached hereto as **Exhibit 12** is a true and correct copy of Google’s March
14 5, 2022 letter. The parties subsequently followed Plaintiffs’ counsel’s proposal to create a list of
15 field names.

16 62. On the same day, Google participated in a Zoom conference with Plaintiffs before
17 the Special Master. During the conference, the Special Master stated: “maybe it was my fault for
18 saying—[indiscernible]—produce these top [REDACTED] hoping that was going to be enough. Clearly,
19 we need to refine things.” Ex. 3, Hr. Tr. 67:8-11, Mar. 5, 2022.

20 63. On March 7, 2022, Google provided a letter update pursuant to the Special Master’s
21 request.

22 64. On March 8, 2022, Google participated in a Zoom conference with Plaintiffs before
23 the Special Master.

24 65. On the same day, Google submitted to the Special Master and Plaintiffs a proposal
25 regarding the process to provide information related to [REDACTED] log sources that contain confidential
26 third-party publisher information.

27 66. On March 9, 2022, Google produced all preserved data from [REDACTED] logs that do
28 not contain confidential third-party publisher information, totaling more than [REDACTED] GB.

1 79. On March 21, 2022, the Special Master again urged Plaintiffs to provide search terms
2 and criteria for the final round of searches. Attached hereto as **Exhibit 14** is a true and correct copy
3 of Mr. Schmidt’s March 21, 2022 email to the parties.

4 80. On March 21, 2022, the Special Master requested to confer with the parties in order
5 to “close[] out the only two open issues: 1. Final searches – what terms and data sources will be run
6 on the final searches of data. 2. Closing out the preservation plan.” The Special Master also noted
7 that “To be crystal clear: This is the end of the process. We will not be arguing new issues or
8 expanding discovery.” Attached hereto as **Exhibit 15** is a true and correct copy of Special Master
9 Brush’s March 22, 2022 email to the parties.

10 81. On March 22, 2022, the parties met and conferred and Plaintiffs requested the
11 [REDACTED] be added to
12 Google’s preservation proposal. On the same day, Google submitted an updated preservation
13 proposal which included this field.

14 82. On March 23, 2022, Google participated in a Zoom conference with Plaintiffs before
15 the Special Master.

16 83. On the same day, Google provided additional information requested by the Special
17 Master, including deposition transcript and relevant exhibit used at Dr. Sadowski’s 30(b)(6)
18 deposition regarding the [REDACTED] and [REDACTED] Boolean
19 fields for the [REDACTED] logs. Google also indicated that “to the extent Plaintiffs select any of [the]
20 [REDACTED] log sources for their next round of searches—and the Special Master approves the
21 requests—Google agrees to conduct searches over those sources and produce responsive results.”
22 Attached hereto as **Exhibit 16** is a true and correct copy of counsel for Google’s March 23, 2022
23 email to the Special Master and counsel for Plaintiffs.

24 84. On March 25, 2022, Google produced additional data pursuant to the Special Master
25 process.

26 85. On March 26, 2022, the Special Master queried “where are we in the search
27 negotiations and a proposed plan for the final searches.” In response, Google indicated that it is
28 “ready to initiate the final set of searches,” and “look(s) forward to receiving the final set of search

1 requests from Plaintiffs[.]” Attached hereto as **Exhibit 17** is a true and correct copy of counsel for
 2 Google’s March 26, 2022 email to the Special Master and counsel for Plaintiffs.

3 86. On March 28, 2022, Google produced additional information pursuant to the Special
 4 Master process and again urged Plaintiffs to provide the search terms and criteria for the final round
 5 of search under the Special Master process.

6 87. On March 31, 2022, the Special Master instructed that “Plaintiffs are to provide final
 7 searches at this point.” On the same day, Google participated in a Zoom conference with Plaintiffs
 8 before the Special Master. Attached hereto as **Exhibit 18** is a true and correct copy of the Special
 9 Masters’ March 31, 2022 email to counsel for Plaintiffs and counsel for Google.

10 88. On April 1, 2022, Google provided the proto comments for the [REDACTED]
 11 field.

12 89. On April 2, 2022, Plaintiffs selected final searches in the Special Master process,
 13 including searches of log sources that “have an incognito detection bit” and are at issue in Plaintiffs’
 14 motion for sanctions. Attached hereto as **Exhibit 39** is a true and correct copy of search parameters
 15 forwarded from the Special Master team to Google on April 2, 2022.

16 **Additional Productions and Discovery Related To Inferring [REDACTED]**

17 [REDACTED]
 18 90. Mr. Leung’s name appears in approximately 9,500 documents produced between
 19 April 2021 and December 2021.

20 91. From June through November 2021, there were at least 12 documents produced,
 21 which were all emails from Bert Leung himself and discussed various Incognito related projects and
 22 tasks (e.g., [REDACTED])¹

23 92. Google has produced documents related to [REDACTED] since at least April
 24 9, 2021. *See e.g.*, GOOG-BRWN-00027543, a true and correct copy attached hereto as **Exhibit 19**;
 25 GOOG-BRWN-00028978, a true and correct copy attached hereto as **Exhibit 20**. Mention of and
 26 _____

27 ¹ *See e.g.*, GOOG-BRWN-00234190, GOOG-BRWN-00234726, GOOG-BRWN-00234898,
 28 GOOG-BRWN-00242105, GOOG-BRWN-00242324, GOOG-BRWN-00386196, GOOG-BRWN-
 00386197, GOOG-BRWN-00403456, GOOG-BRWN-00405320, GOOG-BRWN-00405532,
 GOOG-BRWN-00750965. True and correct copies are attached hereto as Exhibits 27 through 37 .

1 details regarding [REDACTED] have been laid out in numerous documents produced since
 2 April 2021: *see e.g.*, GOOG-BRWN-00027543 (“Ads Log Types”) Ex. 19; GOOG-BRWN-
 3 00146410 (“Sell-side Access Only Interaction Logs”), a true and correct copy attached hereto as
 4 **Exhibit 21**; GOOG-CABR-03815890 (“Digest for cafe-team@google.com - 25 updates in 13
 5 topics”), a true and correct copy attached hereto as **Exhibit 22**; GOOG-CABR-03848701 (“Digest
 6 for cafe-team@google.com - 25 updates in 10 topics”), a true and correct copy attached hereto as
 7 **Exhibit 23**; GOOG-CABR-05280756 (“Re: Ramp-up Plan for ChromeGuard”), a true and correct
 8 copy attached hereto as **Exhibit 24**; GOOG-CABR-05281934 (“Re: ChromeGuard ramping from
 9 50% to 100% on 7/13 (Monday)”), a true and correct copy attached hereto as **Exhibit 25**; GOOG-
 10 CABR-05282988 (“Clickserver Privacy Landscape 2020”), a true and correct copy attached hereto
 11 as **Exhibit 26**. Google has produced hundreds of documents related to this method to infer
 12 aggregated Incognito web traffic.

13 93. In September 2021, Google produced the detailed foundational documents for
 14 [REDACTED]—the Phase 1 technical design document GOOG-
 15 CABR-00544408 (“[REDACTED]” authored by Mandy
 16 Liu produced on September 1, 2021), Trebicka Decl. Ex. 10; and the corresponding master design
 17 document GOOG-CABR-00901891 (“[REDACTED]” authored by Bert
 18 Leung produced on September 2, 2021), Trebicka Decl. Ex. 12. From September 2021 through
 19 November 2021, Google produced numerous additional documents regarding the project and the
 20 [REDACTED] bit. For example:

21 a. Additional project technical design document dated May 4, 2021 showing it
 22 was “APPROVED” by four separate “Approvers” and produced September 24, 2021. Trebicka
 23 Decl. Ex. 13 (GOOG-CABR-03668216);

24 b. Additional master design document dated July 16, 2020 produced on October
 25 6, 2021. Trebicka Decl. Ex. 20 (GOOG-CABR-04470006); Trebicka Decl. Ex. 21 (GOOG-CABR-
 26 04796629) (same produced October 29, 2021);

27 c. June 4, 2021 email from Mandy Liu identifying bit and [REDACTED] produced
 28 November 24, 2021. Trebicka Decl. Ex. 22 (GOOG-CABR-05285402);

1 d. June 10, 2021 email from a Google code reviewer identifying the bit and
2 providing “Approval” of project’s computer code produced November 24, 2021. Trebicka Decl.
3 Ex. 23 (GOOG-CABR-05285407);

4 e. June 10, 2021 email from Mandy Liu to the Google code reviewer identifying
5 the bit and providing a modified changelist related to the project produced November 24, 2021.
6 Trebicka Decl. Ex. 24 (GOOG-CABR-05285409); Trebicka Decl. Ex. 25 (GOOG-CABR-
7 05285410) (similar);

8 f. June 12, 2021 email from a Google code reviewer identifying the bit and
9 showing Googler comments related to the project produced on November 24, 2021. Trebicka Decl.
10 Ex. 26 (GOOG-CABR-05285411);

11 g. June 15, 2021 email from Google code reviewer identifying the bit and
12 providing “APPROVAL” of project’s computer code produced November 24, 2021. Trebicka Decl.
13 Ex. 27 (GOOG-CABR-05285414);

14 h. June 15, 2021 email from Mandy Liu identifying the bit and [REDACTED] produced
15 September 24, 2021. Trebicka Decl. Ex. 16 (GOOG-CABR-03668991);

16 i. June 16, 2021 email from a Google code reviewer identifying the bit and
17 providing “APPROVAL” of project’s computer code produced November 24, 2021. Trebicka Decl.
18 Ex. 28 (GOOG-CABR-05285416);

19 j. June 16, 2021 emails identifying the bit and providing modified changelist
20 related to the project produced on November 24, 2021. Trebicka Decl. Ex. 29 (GOOG-CABR-
21 05285418); Trebicka Decl. Ex. 30 (GOOG-CABR-05285420);

22 k. June 16, 2021 email identifying the bit and showing Googler comments
23 related to the project produced on November 24, 2021. Trebicka Decl. Ex. 31 (GOOG-CABR-
24 05285422);

25 l. June 21, 2021 emails identifying the bit and [REDACTED] produced September 24,
26 2021. Trebicka Decl. Ex. 17 (GOOG-CABR-03669472); Trebicka Decl. Ex. 18 (GOOG-CABR-
27 03669574).

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